

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 11136104
PUBLICATION DATE : 21-05-99

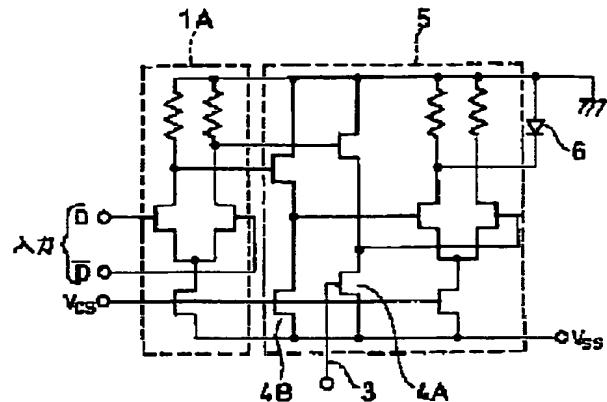
APPLICATION DATE : 28-10-97
APPLICATION NUMBER : 09295395

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INT.CL. : H03K 5/04 H03K 5/08 H04B 10/28
H04B 10/26 H04B 10/14 H04B 10/04
H04B 10/06

TITLE : DUTY-VARIABLE CIRCUIT AND
OPTICAL ELEMENT DRIVING CIRCUIT
USING THE SAME



ABSTRACT : PROBLEM TO BE SOLVED: To provide a duty-variable circuit for not degrading voltage gain and to provide an optical element driving circuit capable of reducing power consumption.

SOLUTION: By adopting not a single-phase input but a double-phase input and separately providing the input terminal of a control voltage 3, this duty-variable circuit for not degrading the voltage gain is constituted. When a circuit for driving the optical element of a semiconductor optical modulator 6 or the like is constituted by using the duty-variable circuit, the position of the intersection of the rise and fall of the eye diagram of output light is set to the middle of a high level and a low level. Further, since the stage number of a differential amplifier can be made less than conventional ones, the power consumption of the driving circuit is reduced.

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